

## CLAIMS

What is claimed is:

1. A method for transplanting cells to a patient in need thereof, comprising:
- obtaining cells from a donor,
  - contacting the cells with an immunoglobulin specific to B7-1, an immunoglobulin specific to B7-2 and recipient cells from the patient for a period of time sufficient for tolerance induction, thereby obtaining a mixture, and
  - introducing the mixture to the patient.
2. The method of Claim 1, wherein the cells from the donor are derived from bone marrow or blood.
3. The method of Claim 2, wherein the recipient cell is a lymphocyte.
4. The method of Claim 3, wherein the period of time is between about 12 hours and about 48 hours.
5. The method of Claim 4, wherein the period of time is about 36 hours.
6. The method of Claim 1, wherein the patient has a disease that is selected from the group consisting of: a proliferative disease, anemia and myeloid dysplasia syndrome.
7. The method of Claim 6, wherein the proliferative disease is selected from the group consisting of: leukemia, lymphoma and cancer.

8. The method of Claim 6, wherein the anemia is selected from the group consisting of: sickle-cell anemia, thalassemia and aplastic anemia.

9. A method for transplanting cells to a patient in need thereof, comprising:

- a) obtaining cells from a donor,
- b) contacting the cells with an immunoglobulin specific to B7-1, an immunoglobulin specific to B7-2, and tissue, organ or cells that express MHC Class I antigen, B7-1 and B7-2 molecules, for a period of time sufficient for tolerance induction, thereby obtaining a mixture, and
- c) introducing the mixture to the patient.

10. The method of Claim 9, wherein the cells derived from the donor are derived from bone marrow, stem cells or immature blood cells.

Sub  
A8  
5

Add  
B3

002220 TE 292950